



Attorney Docket No.: A-71429-1/RFT/VEJ  
Attorney Matter No.: 468940-00070  
Application No. 10/727,090

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BLIVEN *et al.*

Application No. 10/727,090

Filing Date: December 2, 2003

For: *Fuel Cell Power Supply for  
Portable Computing Device and  
Method for Fuel Cell Power Control*

Examiner: Chuo, Tony Sheng Hsiang

Art Unit: 1746

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450:

Dated: June 13, 2006

Signed: [Signature]  
Lukas K. Szymanski

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. Pursuant to the Examiner's request, no copies of U.S. patents or U.S. published applications are enclosed. Copies of all other references are enclosed.

Further, in accordance with the provisions of 37 C.F.R. § 1.98(a)(3) and MPEP § 609(III)(A)(3), Applicant submits that reference no. B4 is not in the English language and directs the Examiner's attention to the English language abstract of same enclosed herewith for a concise statement as to their relevance.

None of the foregoing references are believed to disclose the invention as claimed. Nothing herein shall constitute an admission concerning the contents of any of the cited

PATENT

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references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

Pursuant to 37 C.F.R. §1.97(c), enclosed is a check in the amount of \$180.00 as set forth in 37 C.F.R. §1.17(p). While no further fee is believed to be due, if this belief is in error, the Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2319 (Our Order No. 468940-00070 (A-71429-1/RFT/VEJ)).

Respectfully submitted,

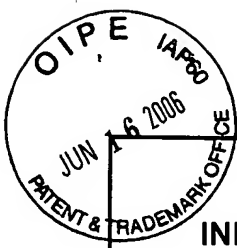
DORSEY & WHITNEY LLP

Dated: 6/13/2006  
Customer Number: 32940

By:   
Victor E. Johnson, Reg. No. 41,546

Dorsey & Whitney LLP  
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(415) 781-1989 (telephone)  
(415) 398-3249 (facsimile)

Attachments: Form PTO/SB/08A, substitute for Form PTO-1449  
35 Cited References  
Check in the amount of \$180.00  
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Substitute for form 1449A/PTO  
(Modified)

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

### Complete if Known

Application Number	10/727,090
Filing Date	December 2, 2003
First Named Inventor	Bliven, David C.
Art Unit	1746
Examiner Name	Chuo, Tony Sheng Hsiang
Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

Sheet 1 of 11

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	3,113,049	12-03-1963	Worsham	
	A2	3,134,697	05-26-1964	Niedrach	
	A3	3,282,875	11-01-1966	Connolly et al.	
	A4	3,297,484	01-10-1967	Niedrach	
	A5	3,301,893	01-31-1967	Putnam et al.	
	A6	3,684,747	08-15-1972	Coalson et al.	
	A7	3,692,569	09-19-1972	Grot	
	A8	4,036,714	07-19-1977	Spitzer	
	A9	4,038,213	07-26-1977	McClure et al.	
	A10	4,176,215	11-27-1979	Molnar et al.	
	A11	4,242,421	12-30-1980	Kudo et al.	
	A12	4,262,063	04-14-1981	Kudo et al.	
	A13	4,303,551	12-01-1981	Vaughan	
	A14	4,390,603	06-28-1983	Kawana et al.	
	A15	4,407,904	10-04-1983	Uozumi et al.	
	A16	4,407,905	10-04-1983	Takeuchi et al.	
	A17	4,417,969	11-29-1983	Ezzell et al.	
	A18	4,419,486	12-06-1983	Rose	
	A19	4,420,544	12-13-1983	Lawson et al.	
	A20	4,453,991	06-12-1984	Grot	
	A21	4,478,917	10-23-1984	Fujita et al.	
	A22	4,508,793	04-02-1985	Kumeta et al.	
	A23	4,537,840	08-27-1985	Tsukui et al.	
	A24	4,542,079	09-17-1985	Takeuchi et al.	
	A25	4,562,123	12-31-1985	Shimizu et al.	
	A26	4,576,877	03-18-1986	Alfenaar	
	A27	4,612,261	09-16-1986	Tsukui et al.	
	A28	4,629,664	12-16-1986	Tsukui et al.	

Examiner Signature	Date Considered
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<p>Substitute for form 1449A/PTO (Modified)</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>				<b>Complete if Known</b>	
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				First Named Inventor	Bliven, David C.
				Art Unit	1746
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Sheet	2	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

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	A29	4,640,873	02-03-1987	Tajima et al.	
	A30	4,642,274	02-10-1987	Tsutsumi et al.	
	A31	4,670,359	06-02-1987	Beshty	
	A32	4,670,702	06-02-1987	Yamada et al.	
	A33	4,673,624	06-16-1987	Hockaday	
	A34	4,680,240	07-14-1987	Furukawa et al.	
	A35	4,686,157	08-11-1987	Miyake et al.	
	A36	4,751,274	06-14-1988	Ittemann et al.	
	A37	4,755,272	07-05-1988	Plowman	
	A38	4,769,296	09-06-1988	Sterzel	
	A39	4,774,153	09-27-1988	Sterzel	
	A40	4,797,190	01-10-1989	Peck	
	A41	4,820,594	04-11-1989	Sugita et al.	
	A42	4,828,941	05-28-1991	Sterzel	
	A43	4,855,193	08-08-1989	McElroy	
	A44	4,865,925	09-12-1989	Ludwig et al.	
	A45	4,876,115	10-24-1989	Raistrick	
	A46	4,964,890	10-23-1990	Reuter et al.	
	A47	5,004,424	04-02-1991	Larminie	
	A48	5,019,463	05-28-1991	Matsubara et al.	
	A49	5,034,288	07-23-1991	Bossel	
	A50	5,061,581	10-29-1991	Narang et al.	
	A51	5,094,928	03-10-1992	Dyer	
	A52	5,102,751	04-07-1992	Narang et al.	
	A53	5,132,193	07-21-1992	Reddy et al.	
	A54	5,186,877	02-16-1993	Watanabe	
	A55	5,211,984	05-18-1993	Wilson	
	A56	5,229,222	07-20-1993	Tsutsumi et al.	

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				Art Unit	1746
				Examiner Name	Chuo, Tony Sheng Hsiang
Sheet	3	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

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	A57	5,234,777	08-10-1993	Wilson	
	A58	5,238,754	08-24-1993	Yasuo et al.	
	A59	5,252,410	10-12-1993	Wilkinson et al.	
	A60	5,262,250	11-16-1993	Watanabe	
	A61	5,302,471	04-12-1994	Ito et al.	
	A62	5,312,876	05-17-1994	Dang et al.	
	A63	5,312,895	05-17-1994	Dang et al.	
	A64	5,314,762	05-24-1994	Hamada et al.	
	A65	5,316,643	05-31-1994	Ahn et al.	
	A66	5,330,860	07-19-1994	Grot et al.	
	A67	5,334,463	08-02-1994	Tajima et al.	
	A68	5,346,780	09-13-1994	Suzuki	
	A69	5,362,836	11-08-1994	Helmer-Metzmann et al.	
	A70	5,366,820	11-22-1994	Tsutsumi et al.	
	A71	5,367,051	11-22-1994	Narang et al.	
	A72	5,384,208	01-24-1995	Brand et al.	
	A73	5,403,675	04-04-1995	Ogata et al.	
	A74	5,432,023	07-01-1995	Yamada et al.	
	A75	5,438,082	08-01-1995	Helmer-Metzmann et al.	
	A76	5,468,574	11-21-1995	Ehrenberg et al.	
	A77	5,470,448	11-28-1995	Molter et al.	
	A78	5,472,799	12-05-1995	Watanabe	
	A79	5,480,735	01-02-1996	Landsman et al.	
	A80	5,482,568	01-09-1996	Hockaday	
	A81	5,488,087	01-30-1996	Cabasso et al.	
	A82	5,503,944	04-02-1996	Meyer et al.	
	A83	5,505,851	04-09-1996	Wagener et al.	
	A84	5,523,177	06-04-1996	Kosek et al.	

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	A85	5,525,436	06-11-1996	Savinell et al.	
	A86	5,540,981	07-30-1996	Gallagher et al.	
	A87	5,541,015	07-30-1996	Tajima et al.	
	A88	5,547,911	08-20-1996	Grot	
	A89	5,548,055	08-20-1996	Narang et al.	
	A90	5,561,202	10-01-1996	Helmer-Metzmann et al.	
	A91	5,573,866	11-12-1996	Van Dine et al.	
	A92	5,573,867	11-12-1996	Zaffred et al.	
	A93	5,599,638	02-04-1997	Surampudi et al.	
	A94	5,624,965	04-29-1997	Huang et al.	
	A95	5,627,737	05-06-1997	Maekawa et al.	
	A96	5,631,099	05-20-1997	Hockaday	
	A97	5,633,098	05-27-1997	Narang et al.	
	A98	5,635,039	06-03-1997	Cisar et al.	
	A99	5,641,586	06-24-1997	Wilson	
	A100	5,656,389	08-12-1997	Tetzlaff et al.	
	A101	5,670,266	09-23-1997	Thomas et al.	
	A102	5,672,439	09-30-1997	Wilkinson et al.	
	A103	5,700,595	12-23-1997	Reiser	
	A104	5,702,755	12-30-1997	Mussell	
	A105	5,702,838	12-30-1997	Yasumoto et al.	
	A106	5,723,086	03-03-1998	Ledjeff et al.	
	A107	5,723,229	03-03-1998	Scheifers et al.	
	A108	5,731,104	03-24-1998	Ventura et al.	
	A109	5,741,408	04-21-1998	Helmer-Metzmann et al.	
	A110	5,759,712	06-02-1998	Hockaday	
	A111	5,773,162	06-30-1998	Surampudi et al.	
	A112	5,773,480	06-30-1998	Stone	

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	A113	5,783,325	07-21-1998	Cabasso et al.	
	A114	5,789,093	08-04-1998	Malhi	
	A115	5,795,496	08-18-1998	Yen et al.	
	A116	5,795,668	08-18-1998	Banerjee	
	A117	5,804,325	09-08-1988	Yepez	
	A118	5,834,523	11-10-1998	Steck et al.	
	A119	5,834,566	11-10-1998	Helmer-Metzmann et al.	
	A120	5,858,568	01-12-1999	Hsu et al.	
	A121	5,869,416	02-09-1999	Mussell	
	A122	5,874,182	02-23-1999	Wilkinson et al.	
	A123	5,882,810	03-16-1999	Mussell et al.	
	A124	5,885,338	03-23-1999	Nigam et al.	
	A125	5,886,890	03-23-1999	Ishida et al.	
	A126	5,906,716	05-25-1999	Mertesdorf et al.	
	A127	5,916,699	06-29-1999	Thomas et al.	
	A128	5,945,231	08-31-1999	Narayanan et al.	
	A129	5,952,119	09-14-1999	Wilson	
	A130	5,958,613	09-28-1999	Hamada et al.	
	A131	5,958,616	09-28-1999	Salinas et al.	
	A132	5,973,025	10-26-1999	Nigam et al.	
	A133	5,976,725	11-02-1999	Gamo et al.	
	A134	5,985,477	11-16-1999	Iwasaki et al.	
	A135	5,985,942	11-16-1999	Steck et al.	
	A136	5,992,008	11-30-1999	Kindler	
	A137	6,007,930	12-28-1999	Adams et al.	
	A138	6,010,798	01-04-2000	Hammerschmidt et al.	
	A139	6,024,848	02-15-2000	Dufner et al.	
	A140	6,025,085	02-15-2000	Savinell et al.	

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				Application Number	10/727,090
				Filing Date	December 2, 2003
				First Named Inventor	Bliven, David C.
				Art Unit	1746
				Examiner Name	Chuo, Tony Sheng Hsiang
Sheet	6	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A141	6,040,077	03-21-2000	Debe et al.	
	A142	6,045,934	04-04-2000	Enami	
	A143	6,057,051	05-02-2000	Uchida et al.	
	A144	6,068,941	05-30-2000	Fuller et al.	
	A145	6,071,635	06-06-2000	Carlstrom et al.	
	A146	6,080,500	06-27-2000	Fuju et al.	
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	A148	6,083,638	07-04-2000	Taniguchi et al.	
	A149	6,090,193	07-18-2000	Nigam et al.	
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	A159	6,136,463	10-24-2000	Kindler et al.	
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	A164	6,175,512	01-16-2001	Hagihara et al.	
	A165	6,180,274	01-30-2001	Yoshimoto et al.	
	A166	6,214,488	04-10-2001	Helmer-Metzmann et al.	
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	A168	6,228,518	05-08-2001	Kindler	

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				First Named Inventor	Bliven, David C.
				Art Unit	1746
				Examiner Name	Chuo, Tony Sheng Hsiang
Sheet	7	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A169	6,241,787	06-05-2001	Nigam	
	A170	6,248,460	06-19-2001	Surampudi et al.	
	A171	6,248,469	06-19-2001	Formato et al.	
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			Application Number	10/727,090	
			Filing Date	December 2, 2003	
			First Named Inventor	Bliven, David C.	
			Art Unit	1746	
			Examiner Name	Chuo, Tony Sheng Hsiang	
Sheet	8	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

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	A197	6,503,378	01-07-2003	Fisher	
	A198	6,503,650	01-07-2003	Yasuo et al.	
	A199	6,586,561	07-01-2003	Litt et al.	
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				Filing Date	December 2, 2003
				First Named Inventor	Bliven, David C.
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Sheet	9	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

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	A225	2002/0187379	12-12-2002	Yasuo et al.	
	A226	2002/0188097	12-12-2002	Goto et al.	
	A227	2003/0044669	03-06-2003	Hidaka et al.	
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	A229	2003/0077503	04-24-2003	Yoshitake et al.	
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	A231	2003/0173547	09-18-2003	Yamakawa et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	B1	EP 0 068 508 B1	01-05-1983	Hitachi, Ltd.		
	B2	EP 0 337 626 A1	10-18-1989	PCI Membrane Systems Limited		
	B3	EP 0 574 791 B1	06-07-1993	Aventis Research & Technologies GmbH		
	B4	FR 2 793 450 A1	11-17-2000	Peugeot Citroen Automobiles SA	English Abstract	
	B5	WO 98/22989 A1	05-28-1998	University of Southern California		
	B6	WO 99/54389 A1	10-28-1999	Universitat of Stuttgart		
	B7	WO 99/54407 A2	10-28-1999	Universitat of Stuttgart		
	B8	WO 00/09610 A1	02-24-2000	The Research Foundation of State University of New York		
	B9	WO 00/22684 A2/A3	04-20-2000	Foster-Miller, Inc.		
	B10	WO 00/24796 A1	05-04-2000	Foster-Miller, Inc.		
	B11	WO 00/27513 A2	05-18-2000	Axiva GmbH		
	B12	WO 00/35032 A1	06-15-2000	Hockaday, Robert		
	B13	WO 00/52779 A1	09-08-2000	Motorola Inc.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/727,090		
		Filing Date	December 2, 2003		
		First Named Inventor	Bliven, David C.		
		Group Art Unit	1745		
		Examiner Name	Chuo, Tony Sheng Hsiang		
Sheet	10	of	11	Attorney Docket Number	A-71429/US/1/RMA (468940-00070)

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	C1	CHO, C., et al., "Synthesis and characterization of poly(arylene ether sulfone) copolymers with sulfonimide side groups," journal publication unknown.	
	C2	GAN, D., et al., "Synthesis and Characterization of Poly(Ether Ketone Ketone) (PEEK)/sodium sulfonated Poly(arylene ether ketone)(S-PAEK) Block Copolymers," Polym Int. 50, 4, 812-816 (2001).	
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	C4	HUFF, J.R., "Direct Methanol/Air Fuel Cells: Systems Considerations," Proc. Workshop Direct Methanol-Air Fuel Cells, A.R. Landgrebe, et al. (eds.), The Electrochemical Society, Inc.: Pennington, NJ:188-192 (1992).	
	C5	KERRES, J., et al., "Synthesis and characterization of novel acid-base polymer blends for application in membrane fuel cells," Solid State Ionics, 125:243-249, North Holland Publishing Co.: Amsterdam, NL 125():243-249 (1999).	
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	C9	LIU, S., et al., "Synthesis of Poly(ether ether ketone)s with high content of sodium sulfonate groups as gas dehumidification membrane materials," Macromol. Rapid Commun. 22(8):579-582 (2001).	
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	C11	MIYATAKE, K., et al., "Synthesis and Proton Conductivity of Highly Sulfonated Poly(thiophenylene)," Macromolecules 30:2941-2946 (1997).	
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*	C16	WANG, F., et al., "Sodium sulfonate-functionalized poly(ether ether ketone)s," Macromol. Chem. Phys. 199():1421-1426 (1998).	
	C17	WANG, F., et al., "Synthesis of poly(ether ether ketone) containing sodium sulfonate groups as gas dehumidification membrane material," Macromol. Rapid Commun. 19():135-137 (1998).	

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				Group Art Unit	1745
				Examiner Name	Chuo, Tony Sheng Hsiang
Sheet	11	of	11	Attorney Docket Number	A-71429/US/1/RMA (468940-00070)

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	C18	WANG, J.-T., et al., "A H <sub>2</sub> /O <sub>2</sub> Fuel Cell Using Acid Doped Polybenzimidazole as Polymer Electrolyte," Proc. 1st Intl. Symp. Proton Conducting Membrane Fuel Cells I, S. Gottesfeld, et al. (eds.), Electrochem. Soc. Proc. 95(23):202-213 (1995).		
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	C20	WNEK, G.E., et al., "New hydrocarbon proton exchange membranes based on sulfonated styrene-ethylene/butylene-styrene triblock copolymers," Electrochem. Soc. Proc. 95(23):247-250 (1995).		
	C21	XIAO, G., et al., "Polyelectrolytes for Fuel Cells Made of Sulfonated Poly(phthalazinone ether ketone)s," Macromol. Rapid Commun. 23(8):488-492 (2002).		
	C22	XIAO, G., et al., "Synthesis and characterization of novel sulfonated poly(arylene ether ketone)s derived from 4,4'-sulfonyl-diphenol," Polymer Bull. 48(4 t 5):309-315 (Jun. 2002).		

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